

**AREA ARRAY MODULATION AND LEAD REDUCTION IN  
INTERFEROMETRIC MODULATORS**

5

**ABSTRACT**

A light modulator is arranged as an array of rows and columns of interferometric display elements. Each element is divided into sub-rows of sub-elements. Array connection lines transmit operating signals to the display elements, with one connection line corresponding to one row of display elements in the array. Sub-array connection lines electrically connect to each array connection line. Switches transmit the operating signals from each array connection line to the sub-rows to effect gray scale modulation.